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## NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 11/18/2009

ANDREW M. CALDERON GREENBLUM AND BERNSTEIN, P.L.C. 1950 ROLAND CLARKE PLACE RESTON. VA 20191

EXAMINER		
MIRZA	, ADNAN M	
ART UNIT	PAPER NUMBER	
2445	•	

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/758,538	01/16/2004	Gordan G. Greenlee	END920030141US1	5583
TITLE OF INVENTION: VIRTUAL CLUSTERING AND LOAD BALANCING SERVERS				

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/18/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE: shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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7590 11/18/2009 ANDREW M. CALDERON GREENBLUM AND BERNSTEIN, P.L.C. 1950 ROLAND CLARKE PLACE			Lbe	Certify	icate of Mailing or Tran		
RESTON, VA 20	0191					(Depositor's name)	
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	1	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
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nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/18/2010	
EXAM	INER	ART UNIT	CLASS-SUBCLASS	]			
MIRZA, A		2445	709-226000	•			
I. Change of correspondence address or indication of "Fee Address" (37 CFR 1.863).  Change of correspondence address for Change of Correspondence Address from PIOSB/122) attached.  Change of correspondence address from Change of Correspondence Address from PIOSB/122) attached.  The Address' indication for "Fee Address' Indication from PIOSB/147; Rev 0.39-20 or more cereal attached. Use of a Customer Number is required.  ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON			or agents OR, alternative (2) the name of a single registered attorney or a 2 registered patent attolisted, no name will be	the names of up to 3 registered patent attorneys 1 gents OR, alternatively, 1 the name of a single firm (having as a member a 2 stered attorney or agent) and the names of up to  gentletered attorneys or agents. If no name is 3  3			
	ess an assignee is ident n in 37 CFR 3.11. Comp GNEE	ified below, no assignee pletion of this form is NO	data will appear on the p of a substitute for filing an (B) RESIDENCE: (CITY	atent. If an assignee assignment. and STATE OR CO	UNTRY)	document has been filed for	
4a. The following fee(s) a  Issue Fee Publication Fee (N Advance Order - #	o small entity discount j		b. Payment of Fee(s): (Plea A check is enclosed. Payment by credit car The Director is hereby overpayment, to Depo	d. Form PTO-2038 i	s attached.		
	SMALL ENTITY state	us. See 37 CFR 1.27.	☐ b. Applicant is no lon				
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GREENBLUM AND BERNSTEIN, P.L.C.			ART UNIT	PAPER NUMBER	
1950 ROLAND CLARKE PLACE			2445		

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1094 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1094 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

## Application No. Applicant(s) 10/758,538 GREENLEE ET AL. Notice of Allowability Examiner Art Unit ADNAN MIRZA 2445 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 08/03/2009. The allowed claim(s) is/are 1,4-18,21-24 and 27-45. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) $\square$ All b) ☐ Some\* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). \* Certified copies not received: \_\_\_\_\_. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. X Examiner's Amendment/Comment Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material Other . NIVEK SRIVASTAVA/

Supervisory Patent Examiner, Art Unit 2445

1	EXAMINER'S AMENDMENT
2	
3	An Examiner's Amendment to the record appears below. Should the
4	changes and/or additions be unacceptable to applicants, an amendment
5	may be filed as provided by 37 CFR 1.312. To ensure consideration of
6	such an amendment, it must be submitted no later than the payment of the
7	issue fee.
8	
9	Authorization for this Examiner's Amendment was given in a telephone
10	interview with Andrew Wright on 11/03/2009.
11	
12	Please amend claims 1, 18, 24 and cancel claims 2,3,19,20,25,26.
13	
14	Listing of Claims
15	
16	
17	1. (Currently Amended) A method of processing queries in a network,
18	comprising the steps of:
19	defining a plurality of virtual clusters from a plurality of servers;
20	routing a request to a virtual cluster of the plurality of virtual clusters
21	based on predetermined criteria in order to allocate system resources;
22	removing at least one of the plurality of servers from the virtual cluster
23	when at least one of the plurality of servers is burdened;
24	creating a new virtual cluster comprising only the removed at least one of

25 | the plurality of servers;

Deleted: and

26	returning the removed at least one of the plurality of servers back to the
27	virtual cluster when the at least one of the plurality of servers is unburdened;
28	monitoring performance of the plurality of servers; and
29	sending a report in response to workload at one of the plurality of servers
30	exceeding a pre-determined threshold so that routing of further requests to the one
31	of the plurality of servers is altered; and
32	removing the one of the plurality of servers from an associated virtual
33	cluster and adding the one of the plumlity of servers back into the associated
34	virtual cluster in response to workload falling below the predetermined threshold.
35	
36	2. (Canceled)
37	
38	3. (Canceled)
39	
40	4. (Currently Amended) The method of claim_1, wherein the sending a
41	report sends a report to a network dispatcher and the network dispatcher performs
42	the routing.
43	
44	5. (Original) The method of claim 1, further comprising the steps of:
45	determining that one of the plurality of servers is overburdened based on
46	statistics; and
47	reducing workload to the one of the plurality of servers if the statistics are
48	above a threshold.
49	
50	6. (Original) The method of claim 5, wherein the reducing step includes at
51	least one of removing the one of a plurality of servers from one of the plurality of
52	virtual clusters and limiting further requests from being routed to the one of a
53	plurality of servers.

Deleted: 2

reassigning the one of a plurality of servers to another one of the plurality of
virtual clusters.
8. (Original) The method of claim 1, wherein at least one of the plurality
of servers is assigned to more than one of the plurality of virtual clusters.
9. (Original) The method of claim 1, wherein the predetermined criteria
includes at least one of requester identity, requested application, time of day, day
of week, and performance statistics.
10. (Original) The method of claim 9, wherein the requester identity is an
internet address.
11. (Original) The method of claim 9, wherein the performance statistics
include at least one of central processing unit (CPU) performance statistics,
memory statistics, connection counts, throughput statistics, and response time
statistics.
12. (Original) The method of claim 1, wherein the routing step includes
selecting one of the plurality of virtual clusters for routing based on at least one of
a requester's identity and a requested application.
13. (Original) The method of claim 12, further including selecting one
server from the one of the plurality of virtual clusters for routing based on
statistics.
14. (Original) The method of claim 13, wherein the selecting is based on
performance statistics.

7. (Original) The method of claim 6, wherein the reducing step includes

15. (Original) The method of claim 1, wherein at least one of the plurality of servers is at least one of a lightweight directory access protocol (LDAP) server and a web application server.
$16.  (\mbox{Original})$ The method of claim 1, wherein the routing uses rules based routing.
17. (Original) The method of claim 1, further comprising the steps of reassigning one of the plurality of servers from one of the plurality of virtual clusters to another one of the plurality of virtual clusters, wherein the one of the plurality of virtual clusters has a workload below a threshold and the another one of the plurality of virtual clusters has a workload above the predetermined threshold.
18. (Currently Amended) A method for load balancing servers, comprising the steps of:  allocating a plurality of servers among a plurality of virtual clusters; monitoring the plurality of virtual clusters for workload capacity; removing at least one of the plurality of servers from the plurality of virtual clusters when at least one of the plurality of servers is burdened; creating a new virtual cluster comprising only the removed at least one of
the plurality of servers;  returning the removed at least one of the plurality of servers back to the plurality of virtual clusters when the at least one of the plurality of servers is unburdened; and  reassigning at least one server from one of the plurality of virtual clusters
to another of the plurality of virtual clusters based on workload capacity of the at least one server in order to reallocate system resources,  Wherein the monitoring step includes determining when a workload capacity of the one of the plurality of virtual clusters has crossed a threshold

115	based on statistics associated with the one of a plurality of virtual cluster's
116	performance; and
117	further comprising the step of identifying another of the phundity of virtual
118	cluster baving available workload capacity based on statistics associated with the
119	surtual cluster's performance and transferring at least one of the plurality of
120	servers to the another of the virtual cluster.
121	
122	19. (Canceled)
123	
124	20. (Canceled)
125	
126	21. (Original) The method of claim 18, wherein the reassigning at least
127	one server includes one of:
128	removing the server entirely from the one of a plurality of virtual cluster,
129	and
130	assigning the at least one server to both the one of a plurality of virtual
131	clusters and the another of the plurality of virtual clusters.
132	
133	22. (Original) The method of claim 18, further comprising routing a
134	request to one of the plurality of virtual clusters based on one of the requestor's
135	identity, the requested application, and rules.
136	
137	23. (Original) The method of claim 22, further comprising selecting one
138	server assigned to the one of the plurality of virtual clusters based on statistics for
139	routing the request.
140	
141	24. (Currently Amended) A computer program product comprising a
142	computer usable <u>storage</u> medium having readable program code embodied in the
143	storage medium, the computer program product includes at least one component
144	to:

145	define a plurality of virtual clusters from a plurality of servers;
146	route a request to a virtual cluster of the plurality of virtual clusters based
147	on predetermined criteria to allocate system resources;
148	remove at least one of the plurality of servers from the virtual cluster when
149	at least one of the plurality of servers is burdened;
150	create a new virtual cluster comprising only the removed at least one of
151	the plurality of servers;
152	return the removed at least one of the plurality of servers back to the
153	virtual cluster when the at least one of the plurality of servers is unburdened;
154	monitor performance of the plurality of servers;
155	send a report in response to workload at one of the phirality of servers
156	exceeding a pre-determined threshold so that routing of further requests to the one
157	of the plurality of servers is altered; and
158	remove the one of the plurality of servers from an associated virtual
159	cluster and add the one of the plurality of servers back into the associated virtual
160	cluster in response to workload falling below the predetermined threshold.
161	
162	25. (Canceled)
163	
164	26. (Canceled)
165	
166	27. (Original) The system of claim 24, wherein the at least one component
167	sends a report to a network dispatcher and the network dispatcher performs the
168	routing.
169	
170	28. (Original) The system of claim 24, wherein the at least one
171	component:
172	determines that one of the plurality of servers is overburdened based on
173	statistics; and

Deleted: and

174	reduces workload to the one of a plurality of servers if the statistics are
175	above a threshold.
176	
177	29. (Original) The system of claim 28, wherein the at least one component
178	removes the one of a plurality of servers from one of the plurality of virtual
179	clusters and limits further requests from being routed to the one of a plurality of
180	servers.
181	
182	30. (Original) The system of claim 29, wherein the at least one component
183	reassigns the one of a plurality of servers to another one of the plurality of virtual
184	clusters to reallocate the system resources.
185	
186	31. (Original) The system of claim 24, wherein the at least one component
187	assigns at least one of the plurality of servers to more than one of the plurality of
188	virtual clusters.
189	
190	32. (Original) The system of claim 24, wherein the predetermined criteria
191	includes at least one of requester identity, requested application, time of day, day
192	of week, performance statistics.
193	
194	33. (Original) The system of claim 32, wherein the requester identity is a
195	network address.
196	
197	34. (Original) The system of claim 32, wherein the performance statistics
198	include at least one of central processing unit (CPU) performance statistics,
199	memory statistics, connection counts, throughput statistics, and response time
200	statistics.

35. (Original) The system of claim 24, wherein the at least one component selects one of the plurality of virtual clusters for routing based on at least one of a requester's identity, composite statistics, and a requested application.
36. (Original) The system of claim 24, wherein the at least one component selects a non over-burdened server from the one of the plurality of virtual clusters to process information.
37. (Original) The system of claim 36, wherein the at least one component selects based on performance statistics.
38. (Original) The system of claim 24, wherein at least one of the plurality of servers is one of a lightweight directory access protocol (LDAP) server and a web application server.
39. (Original) The system of claim 24, wherein the at least one component uses rules based routing.
40. (Original) The system of claim 24, wherein the at least one component reassigns one of the plurality of servers from one of the plurality of virtual clusters to another one of the plurality of virtual clusters, wherein the another of the plurality of virtual clusters has a workload below a threshold and the one of the plurality of virtual clusters has a workload above the predetermined threshold.
41. (Previously Presented) The method of claim 1, further comprising projecting a rate of routing to each of the plurality of servers.
42. (Previously Presented) The method of claim 41, further comprising adjusting the rate of routing based on a relative degree of overload on at least one of the plurality of servers.

232	
233	43. (Previously Presented) The method of claim 42, further comprising
234	providing early advisories when the rate of routing is projected to overload at
235	least one of the plurality of servers.
236	
237	44. (Previously Presented) The method of claim 1, further comprising
238	determining when the plurality of servers in the virtual cluster are equivalently
239	loaded over a predetermined workload threshold and more capacity is needed.
240	
241	45. (Previously Presented) The method of claim 1, further comprising re-
242	assigning at least one of the plurality of servers when the virtual cluster is above a
243	predetermined cluster capacity rating.
244	
245	Reasons for Allowance
246	
247	1. Claims 1, 4-18, 21-24 and 27-45 will be allowed.
248	
249	2. The following is an examiner's statement of reasons for allowance.
250	The prior art references most closely resembling the applicants
251	claimed invention is Watt (U.S. 7,213,065) and Bruckert (U.S. Pub.No.
252	2002/0049859).
253	
254	First, Watt disclosed a management tool that streamlines the server
255	allocation and provisioning processes within a data center is provided. The
256	system, method, and computer product divide the server provisioning and
257	allocation into two separate tasks. However Watt failed to disclose,
258	"monitor performance of the plurality of servers;

send a report in response to workload at one of the plurality of servers
exceeding a pre-determined threshold so that routing of further requests to the one
of the plurality of servers is altered; and
remove the one of the plurality of servers from an associated virtual
cluster and add the one of the plurality of servers back into the associated virtual
cluster in response to workload falling below the predetermined threshold.".
These limitations are incorporated into all of the independent claims
(claims 1, 18, 24).
Second Bruckert disclosed a scalable clustered system includes a
global fabric, and two or more cluster nodes interconnected via the global
fabric and two or more cluster nodes interconnected via the global fabric.
Each cluster node includes a node naming agent (NNA), a local fabric and
one or more end nodes interconnected via the local fabric. However
Bruckert failed to disclose "monitor performance of the plurality of servers:
send a report in response to workload at one of the plurality of servers
exceeding a pre-determined threshold so that routing of further requests to the one
of the plurality of servers is altered; and
remove the one of the plurality of servers from an associated virtual cluster and
add the one of the plurality of servers back into the associated virtual cluster in
response to workload falling below the predetermined threshold". These
limitations are incorporated into all of the independent claims (claims 1,

18, 24).

Application/Control Number: 10/758,538

Art Unit: 2445

In summary, the Examiner submits that Watt and Bruckert taught all the limitations of independent claims in combination with other elements. Specifically prior art does not teach "mentor performance of the planelity of servers;

send a report in response to workload at one of the plurality of servers exceeding a predetermined threshold so that routing of further requests to the one of the plurality of servers is altered; and

remove the one of the plurality of servers from an associated virtual cluster and add the one of the plurality of servers back into the associated virtual cluster in response to workload falling below the predetermined threshold; therefore, claims 1, 4-18, 21-24 and 27-45 have been deemed allowable over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Adnan Mirza whose telephone number is (571) 272-3885. The examiner can normally be reached on Monday through Friday from 9:30 A.M. to 6:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor Vivek Srivastava can be reached on (571)-272-7304. The fax phone numbers for the organization where this application or proceeding is assigned are listed herein below. Application/Control Number: 10/758,538 Page 3

Art Unit: 2445

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703)746-7239. Customer service number is (866) 217-9197.

/VIVEK SRIVASTAVA/

Supervisory Patent Examiner, Art Unit 2445